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GenCore version 4.5

OM protein - protein search, using sw model

Run on: May 29, 2002, 11:38:47 ; Search time 14.52 Seconds
(without alignments)
1088.386 Million cell updates/sec

Title: US-08-485-355B-50

Perfect score: 3374

Sequence: 1 NGDAGVASQRPHNRRGTRNV..... GKIAARVARRARRAARAN 647

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_AA:*

1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*

4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*

5: /cgn2_6/ptodata/2/1aa/PCITS_COMB.pep:*

6: /cgn2_6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	3374	100	0	US-08-485-355B-50
2	3374	100	0	US-09-194-613-3
3	3033	89	9	US-08-485-355B-52
4	8	6	634	US-08-94-613-6
5	119	5	907	US-08-783-774-2
6	7	119	5	PCT-US95-00611A19
7	116	3	1004	US-09-347-30
8	113	5	34	US-08-268-347-30
9	113	5	551	US-08-793-229-32
10	113	5	551	US-09-285-957-32
11	113	5	816	US-07-157A-4
12	113	5	816	US-08-229-444B-2
13	111	3	20	US-08-541-780-4
14	109	3	2	US-08-469-537A-8
15	108	3	1302	US-08-232-537-2
16	107	3	2	US-09-199-290-7
17	106	3	2	US-07-603-133B-12
18	106	3	1	US-09-199-290-34
19	106	3	1	US-08-323-474-8
20	106	3	1	US-08-469-537A-8
21	105	3	1	US-08-220-240A-5
22	102	3	2	US-08-804-227C-5
23	102	3	2	US-08-570-311-2
24	102	3	2	US-08-355-485-2
25	102	3	2	US-09-306-922-2
26	102	3	2	US-08-570-311-14
27	102	3	2	US-08-737-716-14
160	3	1	666	US-08-808-599A-24
160	3	1	666	US-08-808-599A-24

ALIGNMENTS

RESULT	1
US-08-485-355B-50	Sequence 1, Appl
	Sequence 2, Appl
	Sequence 3, Appl
	Sequence 4, Appl
	Sequence 5, Appl
	Sequence 6, Appl
	Sequence 7, Appl
	Sequence 8, Appl
	Sequence 9, Appl
	Sequence 10, Appl
	Sequence 11, Appl
	Sequence 12, Appl
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	Sequence 38, Appl
	Sequence 39, Appl
	Sequence 40, Appl
	Sequence 41, Appl
	Sequence 42, Appl
	Sequence 43, Appl
	Sequence 44, Appl
	Sequence 45, Appl
	Sequence 46, Appl
	Sequence 47, Appl
	Sequence 48, Appl
	Sequence 49, Appl
	Sequence 50, Appl

RESULT 1

US-08-485-355B-50 ; Sequence 50, Application US/08485355B

Patent No. 6177075

GENERAL INFORMATION:

APPLICANT: Christian, P. D., Gordon, K. H.J., Hanzlik, T. N.

TITLE OF INVENTION: Insect Viruses and Their Uses in Protecting Plants

NUMBER OF SEQUENCES: 57

CORRESPONDENCE ADDRESS:

ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP

STREET: Four Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: United States

ZIP: 94111-4187

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPILER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485,355B

FILING DATE: 07-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/440,522

FILING DATE: 12-MAY-1995

APPLICATION NUMBER: US 08/089,372

FILING DATE: 08-JUL-1993

APPLICATION NUMBER: AU P14081/92

FILING DATE: 14-AUG-1992

ATTORNEY/AGENT INFORMATION:

NAME: Trecartin, Richard F.

REGISTRATION NUMBER: 31,801

REFERENCE/DOCKET NUMBER: A-58631-2/RFT/DS

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 781-1989

TELEFAX: (415) 398-3249

TELEX: 910 277-99

INFORMATION FOR SEQ ID NO: 50:

SEQUENCE CHARACTERISTICS:

LENGTH: 647 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 50:

US-08-485-355B-50

Query Match 100.0%; Score 3374; DB 4; Length 647;
 Best Local Similarity 100.0%; Pred. No. 0; Gaps 0;
 Matches 647; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGDAVGASQRPHNRGRTRNVRVSANTVNGRRNQRRTGQVSPPDNFTAAQDQSL 60
 Db 1 MGDAVGASQRPHNRGRTRNVRVSANTVNGRRNQRRTGQVSPPDNFTAAQDQSL 60

Qy 61 DANTVTPANISNSMPEFRNWKAKIDSDSIGWYKLYDPAGATESARAVGEYSKIPDG 120
 Db 61 DANTVTPANISNSMPEFRNWKAKIDSDSIGWYKLYDPAGATESARAVGEYSKIPDG 120

Qy 121 LVKFSVDAEIRETYNEECPVVITVSPVLDGROWSLSFPMERTAYAVANVENKMSL 180
 Db 121 LVKFSVDAEIRETYNEECPVVITVSPVLDGROWSLSFPMERTAYAVANVENKMSL 180

Qy 181 DWTNDLIEWNLNADWRVWUDQSOWINFTNDTYYVIRVRLPRTYDVPDTPGGLVRWSD 240
 Db 181 DWTNDLIEWNLNADWRVWUDQSOWINFTNDTYYVIRVRLPRTYDVPDTPGGLVRWSD 240

Qy 241 YRLTYKAITCEANMPYLQDGFWIGQVALTPSLQDVSEAYALHTLFARPSSAAL 300
 Db 241 YRLTYKAITCEANMPYLQDGFWIGQVALTPSLQDVSEAYALHTLFARPSSAAL 300

Qy 301 AFWAGLQPGGTAPAGTAPAWEQASSGGYLWTRNGTTPAGSYVWPEGALEYDPND 360
 Db 301 AFWAGLQPGGTAPAGTAPAWEQASSGGYLWTRNGTTPAGSYVWPEGALEYDPND 360

Qy 361 GSWTDFASAGDTVTRQAVDEVVWNVNPAGGSAPFTVRLPRTVPPSNAYNTVFRNLTET 420
 Db 361 GSWTDFASAGDTVTRQAVDEVVWNVNPAGGSAPFTVRLPRTVPPSNAYNTVFRNLTET 420

Qy 421 RPSSRRLPMPADFGOTVANNPKIEQSLIKETGCVLYHSMRNPVFOQLTPASSFGAV 480
 Db 421 RPSSRRLPMPADFGOTVANNPKIEQSLIKETGCVLYHSMRNPVFOQLTPASSFGAV 480

Qy 481 SENNPYERTRDLPDYGIRSDQNMSTAVAHFRSLSHCSIVTKYQWEGVNNTP 540
 Db 481 SENNPYERTRDLPDYGIRSDQNMSTAVAHFRSLSHCSIVTKYQWEGVNNTP 540

Qy 541 FQFAHAGLKNNEEILCLADDLATRGTGVPAVDNFAAVASAFAAAMLSSVLSKSEATSSTI 600
 Db 541 FQFAHAGLKNNEEILCLADDLATRGTGVPAVDNFAAVASAFAAAMLSSVLSKSEATSSTI 600

Qy 601 IKSVGETAVGAQSGLAKLPGLLMSVPGKIAARVARRARRRAAN 647
 Db 601 IKSVGETAVGAQSGLAKLPGLLMSVPGKIAARVARRARRRAAN 647

RESULT 2

US-09-194-613-3

Sequence 3, Application US/09194613

Patent No. 6251654

GENERAL INFORMATION

APPLICANT: GORDON, Karl H.

APPLICANT: HANZLIK, Terry N.

TITLE OF INVENTION: MODIFIED SMALL RNA VIRUSES

NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESS:

ADDRESSEE: McDermott, Will & Emery
 STREET: 600 13th Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3006

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/194,613

FILING DATE: 30 NOV 1998

RESULT 3

US-08-485-355B-52

Sequence 52, Application US/08485355B

Patent No. 6177075

GENERAL INFORMATION:

APPLICANT: Christian, P. D., Gordon, K. H.J., Hanzlik, T. N.

TITLE OF INVENTION: Insect Viruses and Their Uses in Protecting Plants

NUMBER OF SEQUENCES: 57

CORRESPONDENCE ADDRESS:

ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP

CITY: San Francisco

STATE: California

COUNTRY: United States

ZIP: 94111-4187

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/485, 355B

FILING DATE: 07-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/440, 522

FILING DATE: 12-MAY-1995

APPLICATION NUMBER: US 08/089, 372

FILING DATE: 08-JUL-1993

APPLICATION NUMBER: AU PL4081/92

FILING DATE: 14-AUG-1992

ATTORNEY/AGENT INFORMATION:

NAME: Trecartin, Richard F.

REGISTRATION NUMBER: 31,801

REFERENCE/DOCKET NUMBER: A-58631-2/RFT/DSS

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 781-1989

TELEFAX: (415) 398-3249

TELEX: 910 277299

INFORMATION FOR SEQ ID NO: 52:

SEQUENCE CHARACTERISTICS:

LENGTH: 675 amino acids

MOLECULE TYPE: protein

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 52:

US-08-485-355B-52

Query Match 89.9%; Score 3033; DB 4; Length 675;

Best Local Similarity 100.0%; Pred. No. 4.1e-279;

Matches 580; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 68 PANISSMPERFRNWKAGKTDIDSLSGIGWYRFLDPAGATESARAVGEYSKIPDGIVKESVD 127

-Db 96 PANISSMPERFRNWKAGKTDIDSLSGIGWYRFLDPAGATESARAVGEYSKIPDGIVKESVD 155

QY 128 AETRISYNECPCPVWYDVSPLDGROWSLSFSPMFRTAYAVAVANVENKEMSLDVNDL 187

Db 156 AETRILEYNEECPCPVWYDVSPLDGROWSLSFSPMFRTAYAVAVANVENKEMSLDVNDL 215

QY 188 EWLNLADWRWYVDESEQWINTNDTYKIRKIRVPTYDPPTEGLVRTVSYDRLTYKA 247

Db 216 EWLNLADWRWYVDESEQWINTNDTYKIRKIRVPTYDPPTEGLVRTVSYDRLTYKA 275

QY 248 ITCCEANMPITVQDGWIGGROYALPTSLPQYDSEBAVHTTAPRSSAAALAFWAGL 307

Db 276 ITCCEANMPITVQDGWIGGROYALPTSLPQYDSEBAVHTTAPRSSAAALAFWAGL 335

QY 308 PQGGTAPASTPWAQDQASSGGYLTTRHNGTTFPGAGSVSYLPEGALETRDPNGSWTDEA 367

Db 336 PQGGTAPASTPWAQDQASSGGYLTTRHNGTTFPGAGSVSYLPEGALETRDPNGSWTDEA 395

QY 368 SAGDPTFROVADDEWVWNNPAGGSATFTVRVPPSNAYTNTVFRNTLLETRPSSRL 427

Db 396 SAGDPTFROVADDEWVWNNPAGGSATFTVRVPPSNAYTNTVFRNTLLETRPSSRL 455

QY 428 ELPMPADFGQTVANNPKIEQSLKETLGCVLHSKMRNPFQJLTPASSFGAVSFNNPGY 487

RESULT 4

US-09-194-613-6

Sequence 6, Application US/09194613

PATENT NO. 6251654

GENERAL INFORMATION:

APPLICANT: GORDON, Karl H.

APPLICANT: HANZLIK, TEXTIL N.

TITLE OF INVENTION: MODIFIED SMALL RNA VIRUSES

NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESS:

ADRESSEE: McDermott, Will & Emery

STREET: 600 13th Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3096

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/194, 613

FILING DATE: 30-NOV-1998

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Bucca, Ph.D., Daniel

REGISTRATION NUMBER: 42,368

REFERENCE/DOCKET NUMBER: 50179-061

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-756-0000

TELEFAX: 202-756-8087

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 634 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: Linear

MOLECULE TYPE: protein

US-09-194-613-6

Query Match 8.6%; Score 289; DB 4; Length 634;

Best Local Similarity 25.7%; Pred. No. 1.4e-18;

Matches 177; Conservative 72; Mismatches 266; Indels 174; Gaps 39;

QY 35 QRRRGRQISPPDNTAAQ-DIAQSLDANTVFPANISSM-----PE----- 76

Db 31 QRAKTRKEPEPRATRAQQTITSTQEGSKTSPRTDYQPARWPNPPEPREHPGQPR 90

QY 77 -FRWAKKRDID--SISGIVFKEVLPAGATESARAVGEYSKIPDGIVKESVDABIR 131

Db 91 SDTRREGAKASDDGEGSHGSDIKAWHDYLPDPGEKTSLSDDG--KIPDGAIPOSTCGOFR 147

QY 132 EIVNECPVPTDVSPVLDGROWSLSFSPMFRTAYAVAVANVENKEMSLDVNDL-- 186

Db 148 GTVGARYPGLNSTIPLDQGTWPLVMLPFRHLPLFITSNTE--VETVNADDAFA 205

STATE: California
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/04611A
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/229, 291
 FILING DATE: April 18, 1994
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Luann Cseri
 REGISTRATION NUMBER: 31,822
 REFERENCE/DOCKET NUMBER: AYTR-003/00US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-843-5163
 TELEFAX: 415-857-0663
 TELX: 380816 Cooleypa
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 907 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PCT-US95/04611A-19

Query Match 3.5%; Score 119.5; DB 5; Length 907;
 Best Local Similarity 19.5%; Pred. No. 0.033; Mismatches 274; Indels 219; Gaps 27;
 Matches 136; Conservative 67; Mismatches 274; Indels 219; Gaps 27;

Qy 48 NFTAAQDQASDANVTPFPAANISMPERFNAKGKIDLDSDISGIGWFKYLDPAGES 107
 Db 169 NITAVVR-R-RQGD--VTLPLSLPISAOQNSFS---VKTEmLG--NEID---IEC 211
 Qy 108 ARAVGEYSKIPDGLVFKFSVDAEIRE----IYNECPCVVTDVSVPLDGRQWSLISIFSF 160
 Db 212 IIMDEGELISQVFGDKNENITCQGVSHEVHPSCGILTSTSPVAT--PIPGTGYAYSURLTPR 269
 -Qy 161 PWER----TAYVAVANVENKMSLD----VNDLIT---EFLNLLADWRYVWSE 203
 Db 270 PVSRELGNNSLILIVFSGNGKPKASGGDYLQILOSSNIVFSDEIPIASQDMPTNTTIDTVVGDN- 328
 Qy 204 QWINFTNDTYYVVRIRVLRLPTDVPDPTEGLWRVTSYRUYKAITCEANMPPLVQFW 263
 Db 329 ---ATYSPVMTSE-----DANSNPNTVTAFW 352
 Qy 264 -----IGQVALPTP----- 273
 Db 353 AWPNNTETDFKKWLTSGPGCENISGAFASNRFDITVSGLGTPAKPLIITRATNA 412
 Qy 274 ---SLFQYDSEAYAHLTUFARPSAAALAFVWAGLPOGGTAPAGTPAWEQAS 324
 Db 413 TTTHKVIKFSKAPESTTSPPLNTGFDADPT----TGLPSSTHVPNLTA-PAS 463
 Qy 325 SGGYLTWRHNGTTEPAGSVSYVLPSCFALERDYPNGSW----TDFASAGDVTY 373
 Db 464 TGPVTSTADVTSPTAGTTSGASP-----VTPSPSPWDNGTESKAPDMSTSSTSPVTP 516
 Qy 374 TFRQAVADEVWT-----NNPAGGGSAKTFVVRVPSPSAYNTVFR 414
 Db 517 TPNATSPTPAVTTPNATSPTPAVTTPNATSPTPAVTTPNATSPTLGK 576
 Qy 415 N-----TLETRPSSRRLMPMPADFGOTVANNPKIEGSLKLKETGY 458
 Db 577 TSPTSAVTTPPNATSPTLGTSPI-SAVTTPNAT-GPTGEFSP-QANANTNIGL-- 631

Query Match 3.4%; Score 116; DB 4; Length 1004;
 Best Local Similarity 19.5%; Pred. No. 0.086; Mismatches 271; Indels 194; Gaps 31;
 Matches 135; Conservative 92; Mismatches 271; Indels 194; Gaps 31;

Qy 30 NGRRNMRRTGRQVSPPDNFTAAQD--LAQSDAN--AVTPEP-----ANTSSMPF 77
 Db 129 NGTRNER--S-SQQRVKADEVLFEGKDGKVTTKSENGKHTWFTLEKDJNWKNTVDSL 185
 Qy 78 RNWAKG-KIDLDSDISGIGWFKYLDPAGESARAVGEYSKIPD--GLWFSVDAEIRE 133
 Db 186 SIGANGNKKVDTSDTNGLKRKPSTNGQNGNQHNGIASLTLTDITGTTKSATNGVDQ 245
 Qy 134 YNECPCVVTDVSVPLDGRQWSLISIFSFPMFRTAYVAVANVENKMSLDVW--DLEJEW 191
 Db 246 HNRAASVADVLNA-----GW-----INTQGNGASVDFVNTYDIDVDFW 282
 Qy 192 NLADWRYVWSEQWNFTNDTYYVVRIRVLRLPTDVPDPTEGLWRVTSYRUYK 246
 Db 283 GL-----NTVNVMTDTIAHNNKTTVWRVDTGLPVQVWTEGEDTVWVKGNEY--YE 330
 Qy 247 A-ITCEANMPPLVQFWGQFWGGQVALPTSL-----POYDVSSEAYAH 287
 Qy 331 AKODGSDADMKRV-----NGKLAKTKVJKVLSANGTNPVKSINWADGTENTDAYSFKOLK 385
 Qy 288 TLFARPSAAALAFVWAGLPOGGTAPAGTPAWEQASGGYLWTRHNGTTPAGSVSYV 347
 Db 386 ALQDKQVTLASNSAYA-----NGGS-----DADGKGQIQLSNGLN----- 422
 Qy 348 PEGFALERYDPNDGSWMDASAGDVTYFQ-----VAVE 382
 Db 423 -----KFKSTDGEELNKAENDVTFPKKGSVQVGDGKATQDGAKTTGIVLEASE 475
 Qy 383 VVVTNNPAG-----GGSAPTFVVRVPSPSAYNTVFR 435
 Db 476 LVDSLNRKGWKGVTGTDGTGV-----DCTHTDOLVSKSDKDVTKLKGDNLYKROEGTN 528
 Qy 436 FGQTVANN-PRIEQSLIKEI-T-GC1VLVHSKMRNPVFOLTIPASSFGAVS----- 483
 Db 529 FTYALKDELTDVSKVFEKFDRANGANGASTKIKDGLTITPANGAGAAGANTANTISVTKD 588
 Qy 484 -NPGYERTRDLDPYTGIRUDSFQDNMSTAVAHFRLSLSHSCSIVKTY-QWEGVTVN----- 538

RESULT 8
US-08-793-229-32
; Sequence 32, Application US/08793229
; Patent No. 5891703
; GENERAL INFORMATION:
; APPLICANT: VAN DER LAAN, Jan Metske
; APPLICANT: RIEMENS, Adriana Marina
; APPLICANT: QUAX, Wilhelmus Johannes
; TITLE OF INVENTION: Mutated Penicillin G Acylase Genes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/793. 229
; FILING DATE: 23-APR-1997
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/03249
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 97075
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)913-0001
; TELEFAX: (312)913-0002
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 551 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-793-229-32

RESULT 9
US-09-285-957-32
; Sequence 32, Application US/09285957
; Patent No. 6033823
; GENERAL INFORMATION:
; APPLICANT: VAN DER LAAN, Jan Metske
; APPLICANT: RIEMENS, Adriana Marina
; APPLICANT: QUAX, Wilhelmus Johannes
; TITLE OF INVENTION: Mutated Penicillin G Acylase Genes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/285, 957
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/793, 229
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 97075
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)913-0001
; TELEFAX: (312)913-0002
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 551 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

Db 589 GISAGNKAIVKNV--VSGLKKFGD-----ANFDPLTSSADNLTQYDNAIKSLTNLDEK 639
Qy 539 -----TPF--GOFAGAHGILKNEBILCLADDLTLTRTGYPATPDNFAAVSAANMSS 590
Db 640 SKGQOTPWTADNTAVATVGLRGIGWVIRADKTGELNKENKEYNAQYNAMEVKFESGNGIN 699
Qy 591 VLKS-----EATSSIJKVGETAVGANQSL 616
Db 700 SGKILDGTRTRELAKDENAIAFGGSKAL 731

RESULT 8
US-08-793-229-32
; Sequence 32, Application US/08793229
; Patent No. 5891703
; GENERAL INFORMATION:
; APPLICANT: VAN DER LAAN, Jan Metske
; APPLICANT: RIEMENS, Adriana Marina
; APPLICANT: QUAX, Wilhelmus Johannes
; TITLE OF INVENTION: Mutated Penicillin G Acylase Genes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/793. 229
; FILING DATE: 23-APR-1997
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/03249
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 97075
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)913-0001
; TELEFAX: (312)913-0002
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 551 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-793-229-32

Db 237 -----LWNWNKAPDKNTDTYW----TYGDRMNELYSQYQQKD---LFSVQEI 280
Qy 241 YRLTYKAIECTEAN-----MPTFLUDQGFWIGCQYALTPTSUQDYSEAYALHTLFAR 293
Db 281 WEFNOKASYSDVUNWYFREHLEKIAQQ-----LPADESSKA----- 316
Qy 294 PSSAAALAFVWAGLPGQSTAPAGTPANEQASSGGYLTW--RHNGTTPAGSVSYVPE- 349
Db 317 ---ALTMILIAWDMGEODGGGONAGPARTL---EKWLEEMYKVIMP-----VVPES 362
Qy 350 -----GFALERYDPNDSWTFDASAGDTVFRQAVADEVWVTNNIPAGGSAPTTVR 401
Db 363 HRAMSQTCGATQQ-GRPES-----INLSMG----- 388
Qy 402 VPPSNAYTNTVVERNLTRPSSRRLPMPRDPFGO-----TVANPNKIEOLIKE 453
Db 433 EGQAMARWTMPTSVHFRSDKNFTGTPOTMPGNFAFTGQYNGTENRVRVDAKGVEF 492
Qy 500 -----RSDFDQMTAVAFRSLSHSCSIVKTIQNGEVTIVNWPFGQFAHGLKNE 553
Db 493 DAMPPGQSGFTDRNGVRSPHYED-----QLKLYENFECKM-----DVTHADIRRA 539
Qy 554 E 554
Db 540 Q 540

US-09-285-957-32

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:

Query	Match	Score	Length
ENVRYSAN	3.4%	113.5	DB 3;
Best Local Similarity	19.0%	Pred. 0.0	Length 551;
Matches	114;	Mismatches	213;
Conservative	53;	Indels	221;
		Gaps	28;
Qy	18 ENVRYSAN	73	
	TVNGRNQRRTGRQVSP		
	--DNFTAADQASIDANTVTPANIS		
Db	97 RTMEDRKERQVRGQADRE	156	
	MTIWRVHPQMFDYQGAVSKKRSDGVEQSSLAWLN		
Oy	74 MPEFRWAKR		
	TIDLSD		
	--SIGWTFK		
	--YLPAGATESARAVGEY		
	YKPDGLVK	123	
Db	157 VAKAENRME		
	RTIDOKSMAT		
	NTVNGRNQ		
	YKPDGLVK		
Oy	104		

TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-494-7622
TELEFAX: 415-857-0663
TELEX: 380816 COOLEY PA
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 816 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-731-157A-4

US 07-731-157A-4
; Sequence 4, Application US/0731157A
; Patent No. 5457032
GENERAL INFORMATION:
APPLICANT: Quax, Wilhelmus J.
APPLICANT: Misset, Onno
APPLICANT: Van der Laan, Jan M.
APPLICANT: Lenting, Herman B.M.
TITLE OF INVENTION: Mutated beta
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: COOLEY GODWARD CAST
STREET: FIVE PALO ALTO SQUARE,
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible

QY	-----GEFALERVYPNDGSNTDFASAGDTVTFRQWAVDEYVWTNNPAGGSAPTTVR 401
350	-----
Db	HRAMYQSQTGATQQ-GPNPGS-----
628	-----INLSMG----- 653
QY	402 VPPSNAYTNTFRTNLTETRFSRRLBLMPMPADFGQ-----TVANPKIEQSILKE 453

654	-----TKVLLRALVLEAHDDPKRINV-----FERSQCEIMHTALQN-----AQARLSQ 697
QY	454 TLGCYLVHKMRNPNFV-----QLTPASSEGAVSNPNPGYERTRDLPDTG1----- 499

698	EOGAQMARTWMTPTSVHFRFSKDKNFTGTPOTMPGNTFAFTGQYONGTENNRRVVFDAKGVEC 757
QY	500 -----RDSDPDMMSRAVAHRLSLHSICSIWTKYQWEGTINVNNTPGOFAHAGLKLNE 553
Db	758 DAMPPGQSGFTDRNGYRSRPHED-----QIKLYENFECKTM-----DVTHADIRRNA 804
QY	554 E 554
Db	805 Q 805

RESULT 11
 US-08-229-444B-2
 ; Sequence 2, Application US/08229444B
 ; Patent No. 5695978

GENERAL INFORMATION:
 APPLICANT: Quax, Wilhelmus J.
 TITLE OF INVENTION: Penicillin G Acylase, a Gene Encoding
 the Same and a Method for the Production of this Enzyme
 NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Law Offices of Barbara Rae-Venter
 STREET: 260 Sheridan Avenue, Suite 440
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/229, 444B
 FILING DATE: 15-APR-1994
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/934, 551
 FILING DATE: 19-AUG-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/687, 400
 FILING DATE: 18-APR-1991

ATTORNEY/AGENT INFORMATION:
 NAME: Rae-Venter, Ph.D., Barbara
 REGISTRATION NUMBER: 32, 750

REFERENCE/DOCKET NUMBER: GBRO-028/02US

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-328-4400
 TELEFAX: 415-328-4477

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
 LENGTH: 816 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-229-444B-2

RESULT 12
 US-08-541-780-4
 ; Sequence 4, Application US/08541780
 ; Patent No. 5935831

GENERAL INFORMATION:
 APPLICANT: Quax, Wilhelmus J.
 APPLICANT: Misset, Onno
 APPLICANT: Van der Laan, Jan M.
 APPLICANT: Lenting, Herman B.M.
 TITLE OF INVENTION: Mutated beta-lactam acylase genes
 NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:
 ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
 STREET: FIVE PALO ALTO SQUARE, 4TH FLOOR
 CITY: PALO ALTO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 94306

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/541, 780
 FILING DATE: 18-APR-1990
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/731, 157
 FILING DATE: 18-APR-1990

ATTORNEY/AGENT INFORMATION:
 NAME: RAE-VENTER PH.D., BARBARA
 REGISTRATION NUMBER: 32, 750

REFERENCE/DOCKET NUMBER: GBRO-027/00US

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-494-7622
 TELEFAX: 415-857-0663

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
 LENGTH: 816 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-541-780-4

Qy 294 PSSAAALAWVWAGLPGGGTAPAGIPAWECQASSGGLTW---RNGTTPPAGSVVYPER- 349
 Qy 582 ---ALTMILAWDSMHEODGQGONAGPARYL---FKTWLEEMVKOVLMP---VYPER 627
 Db 350 -----GALERYDPNQGSDWTFDASACDVTIFRQAVADEVVTFNNPAGGSAPFTVR 401
 Db 628 HRAMYSQTGATQQ-GPNPGS-----INLSMG----- 653
 Qy 402 VPPSNAYTNNVFRNLLERPSSRLEMPMPADFGQ---TVANPKIEQSLIKE 453
 Db 654 -----TKVLLRVALVLERHPDPKRVNV---FGERSSQEIMHTALQN---AQARLSD 697
 Qy 454 TLGGYLVHSKMRNVE-----QTPASSFGAVSFNPNPGYERFRDPLDVTG--- 499
 Db 698 EGQAMARWMTMPTSVRHSSDKNFGTGPQIMPNGNFAFTGQYONKGTENNRVRVDAKGVEFC 757
 Qy 500 -----RDSDQNMSTAVAFRSLSHSCSIVVTKYQGEGVWVNTIPGQFAHAGLKE 553
 Db 758 DAMPPGQSGFTDRNGVRSPHYED-----QLKLYENFECKTM-----DVTHADIRNA 804
 Qy 554 E 554
 Db 805 Q 805

Query Match 3.4%; Score 113.5; DB 2; Length 816;
 Best Local Similarity 19.0%; Pred. No. 0.1%;
 Matches 114; Conservative 53; Mismatches 213; Indels 221; Gaps 28;

Qy 18 RNRVRSANTVYNGRNORRTGROVSPP---DNNTAAQDLAQSDANVTEANISS 73
 Db 362 RTMEQRKERIQRGQADREMTIWRTHGPGVQMQFDYDQAGAYSKKASWDGYEVQSLAWN 421

Qy 74 MEEFRWAKGKIDLDSD--SIGWFK-----YLDPAGATESARAVGEYSKIDGLVK 123
 Db 422 VAKARWTEFLDQASKMAISINWYADKGHNGIVSPA----- 459

Qy 124 FSVDAEIRETYNEECVVTDVSPVPLDG--RQWSLISIFSPPMFRAYAVANVENKEMSL 180
 Db 460 -----FLPQREPADQDIRPKAGDGSMEW-LGKSDAIPRAY-----NPPQGY 501

Qy 181 DVNDLIEJWLNNAQDWRVYVDSQWINTNFTDNTTYVYRIRLPTDVPDPTEGLRTVSD 240
 Db 502 -----LWNWNKPKAPDKNTDPTIYW-----TYGDRMNLVSQYQOKD--LFSVQEI 545

Qy 241 YRLTYKAITCEAN-----MPTLVDQGEWIGGQVALTPSLPOQDVSEAYALHLTFAR 293

Db 546 WEFNQKASYSVNWRVFRPHIEKLAQQ-----LAPDSSKA----- 581

Qy 294 PSSAALAFVWAGLPOGGTAPAGTPAWEQASSGGVLTW--RHNGTTFPACSVVLPE- 349
 Db 582 --ALTMMLAWDGMBODQGSONAGPARVL---FKTWLDEMKYQVLM-----VUPES 627

Qy 350 -----GFALERDPNDGSWTFDASAGDTVTFRQAVADEVWVTPNPGGSAFTFTVR 401
 Db 628 HRAMYSQTGFTAQ-GPNPGS-----INLSMG----- 653

Qy 402 VPPSNAYNTVFRNLTETRSPSRRLLELPMPADFGQ-----TVAANIPKIEOSLKE 453
 Db 654 -----TKVLLRALVLEAHDPDKRNV-----FGERSSQEMHTALQN--AQARLSQ 697

Qy 454 TLGCYLVHSKMRNPYF-----QLTPASSFGAVSNPNPGYERTRDLDPYGI-- 499
 Db 698 ECGAQAMWRWMTPSVHRSDFKDNFTGPTOMPGNTFAFTGQYONGTENRNVFDAGVEFC 757

Qy 500 -----RDSEFDQNMSTAVAHERRSLSHCSAVTQVQGWEQYNTWVTPFGQFAHAGLKLNE 553
 Db 758 DAMPPGQSGFTRDRNGVRSPHYED-----QLKLVENFECKM-----DVTADIRRNA 804

Qy 554 E 554

Db 805 Q 805

RESULT 13
 US-08-485-355B-24

Query Match 3.3%; Score 111; DB 4; Length 20;
 Best Local Similarity 10.0%; Pred. No. 0.0003; Mismatches 0; Indels 0; Gaps 0;

Qy 255 PTLVQDGFWIGGQYALPTTS 274
 Db 1 PTLVQDGFWIGGQYALPTTS 20

RESULT 14
 US-08-232-537-2

Query Match 3.3%; Score 111; DB 4; Length 20;
 Best Local Similarity 10.0%; Pred. No. 0.0003; Mismatches 0; Indels 0; Gaps 0;

Qy 255 PTLVQDGFWIGGQYALPTTS 274
 Db 1 PTLVQDGFWIGGQYALPTTS 20

Query Match 3.3%; Score 111; DB 4; Length 20;
 Best Local Similarity 10.0%; Pred. No. 0.0003; Mismatches 0; Indels 0; Gaps 0;

Qy 255 PTLVQDGFWIGGQYALPTTS 274
 Db 1 PTLVQDGFWIGGQYALPTTS 20

GENERAL INFORMATION:
 APPLICANT: Peery, Robert B.
 ATTORNEY/AGENT: Skarud, Paul L.
 TITLE OF INVENTION: MULTIPLE DRUG RESISTANCE GENE OF
 TITLE OF INVENTION: AUREOBASIDIUM PULLULANS
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Eli Lilly and Company
 STREET: Lilly Corporate Center
 CITY: Indianapolis
 STATE: Indiana
 COUNTRY: USA
 ZIP: 46285

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOSE/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/232, 537
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Plant, Thomas G.
 REGISTRATION NUMBER: 35, 784
 REFERENCE/DOCKET NUMBER: X0212

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 317-276-2459
 TELEFAX: 317-276-1917

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1302 amino acids

TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-232-537-2

Query Match^{3.2%} Score 109; DB 1; Length 1302;
 Best Local Similarity 19.4%; Pred. No. 0.2;
 Matches 90; Conservative 55; Mismatches 180; Indels 140; Gaps 20;
 Best Local Similarity 22.7%; Pred. No. 0.62; Matches 93; Conservative 52; Mismatches 147; Indels 118; Gaps 22;

Qy 264 IGGQVALPTSLRQYDSEAYAHLTTPARPSSAALAFWAGLPGQGTAPACTPANE- 321
 Db 291 LSRAYAI-----RKSVAFAEML--GLYVFTAYASANALAF-----WEGS 326

Qy 322 -QASSGGYLTHWRHNGTWPAGGSVSYVPEGEALERVPNDGSSWTDFASAGDTWTFROVA 379
 Db 327 RLAESGS----NNAGTYIAY--VFLIDASFVNGQDFPFLGSFATAAAGESV---- 374

Qy 380 VDEWVVTINP-----AGGSSPPTFVVRUPPSSNAYNTVFRNT--LLETTRSSRRE-- 428
 Db 375 --YEILNHPPOSENTIVSEAGQET-----ESDMKAIDLVRNFTFVYPARTASALEEM 425

Qy 429 -LMPADFGQTWANNPRTQESLKEIYGCLVHVKMRNPNVQLTTPASSFGAVSFNNPGY 487
 Db 426 STILKAGOMNAIVGTSGCGKSTLVLSSLRLYDISSG-----QLT-TGSHDIDKEN--- 474

Qy 488 ERTDLPDTGIRD-----SFDDQNNTSTAVAFRSLSHSGCSIVTKYQGNGEVTNT 539
 Db 475 --VRSLRKTYALVQDSDLVFSGSVLENISYGG-----EHSLSDDVULERCTEAAKANL 527

Qy 540 PEGQPAHAGL-----KBEILCADDLATRNGVPA---TQFNAAVSA 582
 Db 528 DFVDFLFLPOGIIHTRIGNGGTSLSGGQMRI-CLARALVKK---PALLLDEPTAALDA 581

Qy 583 FANMLSVYLSKTSATSSLIKSYGETAYGAA--SGLAKLPGLMSVPGKI 630
 Db 582 NSBGLIMDAVK-----VAATGTTVVVAHRLISTVSDSPNIVLMSGAKV 625

RESULT 15
 US-09-199-290-7
 Sequence 7, Application US/09199290

PATENT NO. 6255084

GENERAL INFORMATION:

APPLICANT: Nielsen, Bjarne R.
 APPLICANT: Nielsen, Ruby
 APPLICANT: Lehmbeck, Jan

TITLE OF INVENTION: thermostable Glucoamylase

FILE REFERENCE: 5219.200-US

CURRENT APPLICATION NUMBER: US/09/199, 290

CURRENT FILING DATE: 1998-11-24

EARLIER APPLICATION NUMBER: 1557/97

EARLIER FILING DATE: 1997-12-30

EARLIER APPLICATION NUMBER: 0925/98

EARLIER FILING DATE: 1998-07-10

EARLIER APPLICATION NUMBER: 60/070, 746

EARLIER FILING DATE: 1998-01-08

EARLIER APPLICATION NUMBER: 60/094, 344

EARLIER FILING DATE: 1998-07-28

EARLIER APPLICATION NUMBER: 08/979, 673

EARLIER FILING DATE: 1997-11-26

EARLIER APPLICATION NUMBER: 09/107, 657

EARLIER FILING DATE: 1998-06-30

NUMBER OF SEQ ID NOS: 34

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 7
 LENGTH: 591

TYPE: PRM
 ORGANISM: Talaromyces emersonii

US-09-199-290-7

Search completed: May 29, 2002, 11:39:56
 Job time: 69 sec